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 ***** STN Columbus *****

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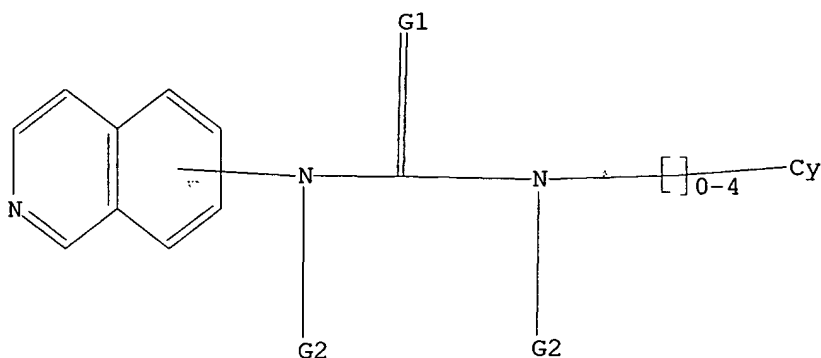
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L1 STRUCTURE UPLOADED

=> dis l1

L1 HAS NO ANSWERS

L1 STR



G1 O,S,N

G2 Ak,H

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sam

L2 2 SEA SSS SAM L1

=> s l1 full

L3 38 SEA SSS FUL L1

=> file caplus

=> s l3

L4 21 L3

=> dis 1-21 bib abs hitstr

L5 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:1262710 CAPLUS

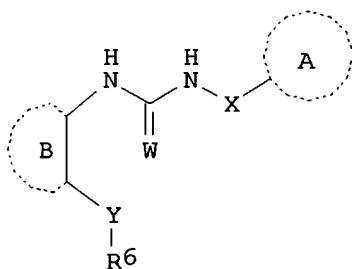
DN 144:22817

TI Preparation of phenyl or pyridinyl ureas as antagonists of P2Y1 receptors for the treatment of thromboembolic disorders

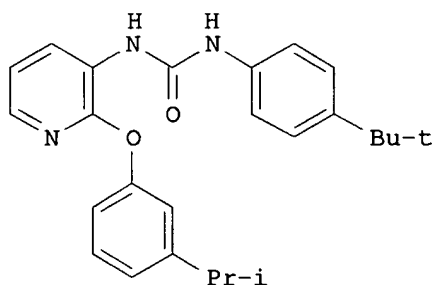
IN Chao, Hannguang J.; Tuerdi, Huji; Herpin, Timothy; Roberge, Jacques Yves; Liu, Yalei; Lawrence, R. Michael; Rehfuss, Robert P.; Clark, Charles G.; Qiao, Jennifer X.; Gungor, Timur; Lam, Patrick Y. S.; Wang, Tammy C.; Ruel, Rejean; L'Heureux, Alexandre L.; Thibeault, Carl; Bouthillier, Gilles; Schnur, Dora M.

PA Bristol-Myers Squibb Company, USA
 SO PCT Int. Appl., 343 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005113511	A1	20051201	WO 2005-US16422	20050511
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2005267119	A1	20051201	US 2005-126915	20050511
PRAI	US 2004-570288P	P	20040512		
	US 2005-665735P	P	20050328		
	US 2005-665817P	P	20050328		
GI					



I



II

AB Title compds. I [wherein ring A = (un)substituted aryl or heterocyclyl; ring B = (un)substituted heteroaryl; W = O or S; X = bond or (un)substituted alkylene; Y = O, S, NH, etc.; R6 = Ph, phenylalkyl, etc., and stereoisomers, pharmaceutically acceptable salts or solvates thereof] were prepared as P2Y1 receptor inhibitors. For instance, etherification of m-isopropylphenol with 2-chloro-3-nitropyridine at 180°C for 700 s in a microwave (87% yield) followed by hydrogenation in the presence of Pd/C (90% yield) gave a pyridinamine, which underwent nucleophilic addition with p-tert-butylphenyl isocyanate to afford urea II (30% yield). Some compds. I have been identified to exhibit Ki's of ≤ 10 mM in the P2Y1 binding assay. I and their pharmaceutical compns. are useful in treating diseases responsive to modulation of P2Y1 receptor activity, such as thromboembolic disorders (no data).

IT **870544-95-9P**

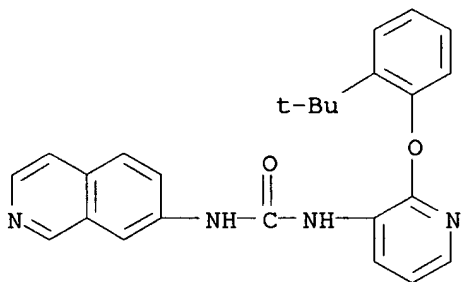
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(inhibitor; preparation of Ph or pyridinyl ureas as antagonists of P2Y1 receptors for the treatment of thromboembolic disorders)

RN 870544-95-9 CAPLUS

CN Urea, N-[2-[2-(1,1-dimethylethyl)phenoxy]-3-pyridinyl]-N'-7-isoquinolinyl-(9CI) (CA INDEX NAME)



RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:450974 CAPLUS

DN 142:481963

TI Preparation of used azabicyclic compounds that inhibit vanilloid receptor subtype 1 (VR1) receptor

IN Lee, Chih-Hung; Bayburt, Erol K.; DiDomenico, Stanley; Drizin, Irene; Gomtsyan, Arthur R.; Koenig, John R.; Perner, Richard J.; Schmidt, Robert G.; Turner, Sean C.; Jinkerson, Tammie K.; Zheng, Guo Zhu

PA USA

SO U.S. Pat. Appl. Publ., 94 pp.

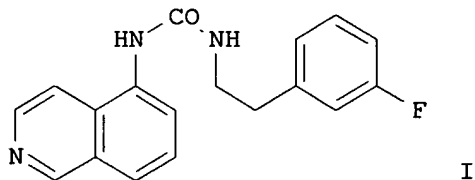
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 2005113576	A1	20050526	US 2004-911019	20040804
PRAI	US 2003-492528P	P	20030805		
OS	MARPAT 142:481963				
GI					



AB Azabicyclic compds., such as R-X5-C(:Z1)-Z2-L-R9 [R = substituted or unsubstituted azabicyclic moiety, such as 5-isoquinolinyl, 4-indazolyl, 4-indolyl or 5-cinnolinyl; X5 = -N(R8a)-, -C(R8a)(R8b)-; Z1 = O, NH, S; Z2

= bond, -NH-, -O-; L = alkylene, alkenylene, alkynylene, cycloalkylene; R8a = H, alkyl; R8b = H, OH, halogen, alkoxy, alkoxycarbonylalkyl, alkylcarbonyloxy, alkylsulfonyloxy; R9 = aryl], were prepared for use in pharmaceutical compns. as VR1 antagonists for treating a disorder wherein the disorder is ameliorated by inhibiting a VR1 receptor, such as pain, inflammatory thermal hyperalgesia, urinary incontinence and bladder overactivity. Thus, N-[2-(3-fluorophenyl)ethyl]-N'-isoquinolin-5-ylurea (I) was prepared starting from 5-isoquinolinamine, Cl3CCOCl and F-3-C6H4(CH2)2NH2 via urea formation in 65% yield refluxing F-3-C6H4(CH2)2NH2 and 2,2,2-trichloro-N-5-isoquinolinylacetamide in MeCN using DBU. The prepared azabicyclic compds. were tested in vivo to determine their antinociceptive effect in male mice.

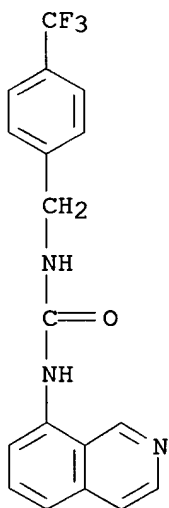
IT 581810-21-1P 581810-22-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of fused azabicyclic compds. that inhibit vanilloid subtype 1 (VR1) receptor)

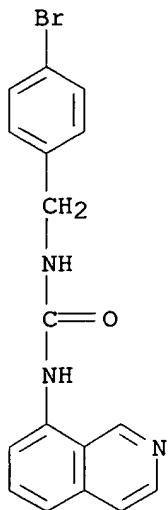
RN 581810-21-1 CAPLUS

CN Urea, N-8-isoquinolinyl-N'-[[4-(trifluoromethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)

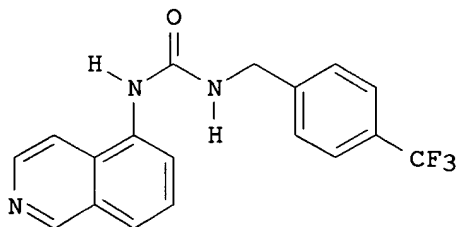


RN 581810-22-2 CAPLUS

CN Urea, N-[(4-bromophenyl)methyl]-N'-8-isoquinolinyl- (9CI) (CA INDEX NAME)



L5 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:31491 CAPLUS
 DN 142:240400
 TI Novel transient receptor potential vanilloid 1 receptor antagonists for the treatment of pain: Structure-activity relationships for ureas with quinoline, isoquinoline, quinazoline, phthalazine, quinoxaline, and cinnoline moieties
 AU Gomtsyan, Arthur; Bayburt, Erol K.; Schmidt, Robert G.; Zheng, Guo Zhu; Perner, Richard J.; Didomenico, Stanley; Koenig, John R.; Turner, Sean; Jinkerson, Tammie; Drizin, Irene; Hannick, Steven M.; Macri, Bryan S.; McDonald, Heath A.; Honore, Prisca; Wismer, Carol T.; Marsh, Kennan C.; Wetter, Jill; Stewart, Kent D.; Oie, Tetsuro; Jarvis, Michael F.; Surowy, Carol S.; Faltynek, Connie R.; Lee, Chih-Hung
 CS Global Pharmaceutical Research and Development, Abbott Laboratories, Abbott Park, IL, 60064, USA
 SO Journal of Medicinal Chemistry (2005), 48(3), 744-752
 CODEN: JMCMAR; ISSN: 0022-2623
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 142:240400
 GI



AB Transient receptor potential vanilloid 1 (TRPV1) receptor antagonists with

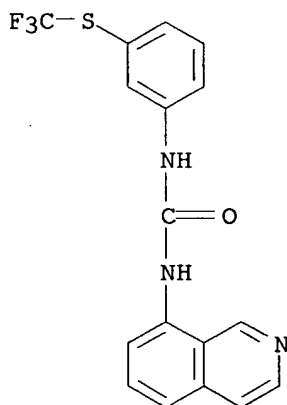
various bicyclic heteroarom. pharmacophores were synthesized, and their in vitro activity in blocking capsaicin activation of TRPV1 was assessed. On the basis of the contribution of these pharmacophores to the in vitro potency, they were ranked in the order of 5-isoquinoline > 8-quinoline = 8-quinazoline > 8-isoquinoline ≥ cinnoline ≈ phthalazine ≈ quinoxaline ≈ 5-quinoline. The 5-isoquinoline-containing compound I (hTRPV1 IC50 = 4 nM) exhibited 46% oral bioavailability and in vivo activity in animal models of visceral and inflammatory pain. Pharmacokinetic and pharmacol. properties of I were substantial improvements over the profile of the high-throughput screening hit (hTRPV1 IC50 = 22 nM), which was not efficacious in animal pain models and was not orally bioavailable.

IT 845509-36-6P

RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation, transient receptor potential vanilloid 1 receptor affinity, and structure-activity relationship of ureas with quinoline, isoquinoline, quinazoline, phthalazine, quinoxaline, and cinnoline moieties and isoquinolin carbamates)

RN 845509-36-6 CAPLUS

CN Urea, N-8-isoquinolinyl-N'-[3-[(trifluoromethyl)thio]phenyl]- (9CI) (CA INDEX NAME)



RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:1080867 CAPLUS

DN 142:56195

TI Preparation of isoquinolinecarboxamides and their use in mediating hypoxia inducible factor and increasing endogenous erythropoietin

IN Arend, Michael P.; Flippin, Lee A.; Guenzler-Pukall, Volkmar; Ho, Wen-Bin; Turtle, Eric D.; Du, Xiaohui

PA Fibrogen, Inc., USA

SO PCT Int. Appl., 302 pp.

CODEN: PIXXD2

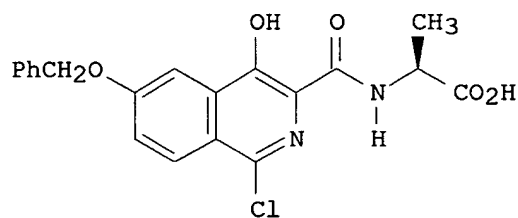
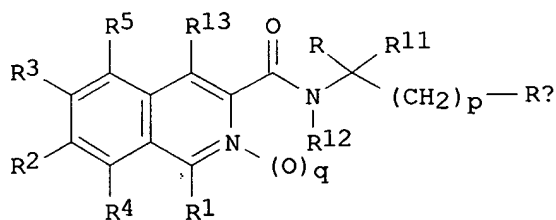
DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2004108681 A1 20041216 WO 2004-US17773 20040604
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
US 2004254215 A1 20041216 US 2004-861082 20040604
PRAI US 2003-476420P P 20030606
US 2003-476519P P 20030606
US 2003-476633P P 20030606
US 2003-476811P P 20030606
OS MARPAT 142:56195
GI



AB Title compds. I [wherein q = 0 or 1; p = 0 or 1; Ra = COOH or -WR8; W = O, S(O)n or NR9; R8, R9 = H, (un)substituted alkyl or (hetero)aryl; n = 0-2; R1 = H, (un)substituted alk(yl/oxy), amino or sulf(a/i/o)nyl; R2, R3 = H, (un)substituted alk(yl/oxy), (hetero)aryl, aryloxy, sulf(a/i/o)nyl, halo, OH or cyano; R4, R5 = H, halo, (un)substituted alk(yl/oxy) or (hetero)aryl, R = H, D or Me; R11 = H, D or (un)substituted alkyl; R12 = H or alkyl; R13 = H, (un)substituted (cyclo)alkoxy or aryloxy; et al., with some limitations, and pharmaceutically acceptable salts, esters and prodrugs thereof] were prepared For example, 6-benzyloxy-1-chloro-4-hydroxyisoquinoline-3-carboxylic acid underwent HATU-mediated coupling reaction with L-alanine Me ester hydrochloride followed by basic hydrolysis to give compound II. I were reported to be active in several biol. assays (no data). Compds. I and their pharmaceutical compns. are useful in mediating hypoxia inducible factor (HIF) and in treating erythropoietin-associated conditions, such as anemic and neurol. disorders,

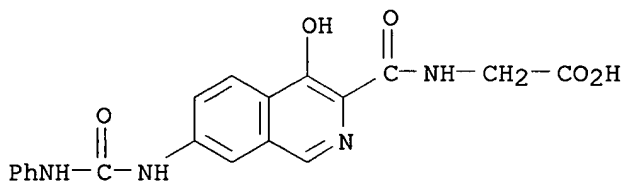
by increasing endogenous erythropoietin.

IT **808119-10-0P**, [[[4-Hydroxy-7-(3-phenylureido)isoquinolin-3-yl]carbonyl]amino]acetic acid **808119-13-3P**, [[[4-Hydroxy-6-(3-phenylureido)isoquinolin-3-yl]carbonyl]amino]acetic acid
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of isoquinolinecarboxamides as modulators of hypoxia inducible factor and endogenous erythropoietin)

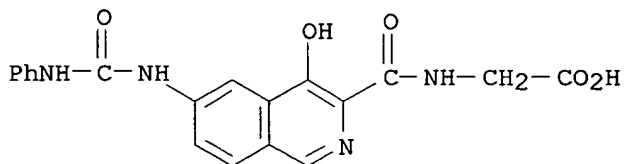
RN 808119-10-0 CAPLUS

CN Glycine, N-[[4-hydroxy-7-[[(phenylamino) carbonyl] amino]-3-isoquinolinyl]carbonyl]- (9CI) (CA INDEX NAME)



RN 808119-13-3 CAPLUS

CN Glycine, N-[[4-hydroxy-6-[[(phenylamino) carbonyl] amino]-3-isoquinolinyl]carbonyl]- (9CI) (CA INDEX NAME)



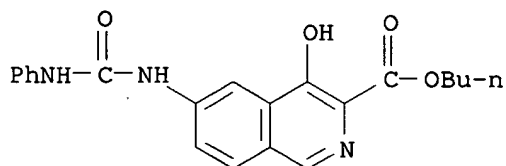
IT **808119-11-1P**, 6-(3-Phenylureido)-4-hydroxyisoquinoline-3-carboxylic acid butyl ester **808119-12-2P**, 7-(3-Phenylureido)-4-hydroxyisoquinoline-3-carboxylic acid butyl ester

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of isoquinolinecarboxamides as modulators of hypoxia inducible factor and endogenous erythropoietin)

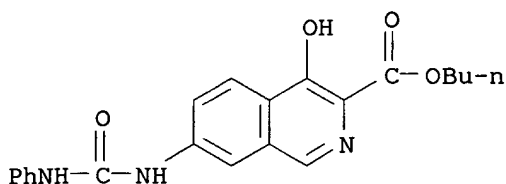
RN 808119-11-1 CAPLUS

CN 3-Isoquinolinecarboxylic acid, 4-hydroxy-6-[[(phenylamino) carbonyl] amino]-, butyl ester (9CI) (CA INDEX NAME)



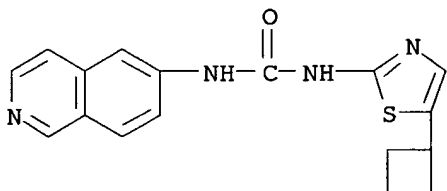
RN 808119-12-2 CAPLUS

CN 3-Isoquinolinecarboxylic acid, 4-hydroxy-7-[[(phenylamino) carbonyl] amino]-, butyl ester (9CI) (CA INDEX NAME)



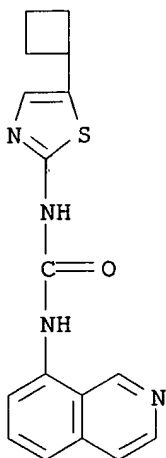
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:863096 CAPLUS
DN 142:231
TI Discovery and SAR of 2-aminothiazole inhibitors of cyclin-dependent kinase 5/p25 as a potential treatment for Alzheimer's disease
AU Helal, Christopher J.; Sanner, Mark A.; Cooper, Christopher B.; Gant, Thomas; Adam, Mavis; Lucas, John C.; Kang, Zhijun; Kupchinsky, Stanley; Ahlijanian, Michael K.; Tate, Bonnie; Menniti, Frank S.; Kelly, Kristin; Peterson, Marcia
CS Neuroscience Medicinal Chemistry and Pharmacology, Pfizer Global Research and Development, Groton, CT, 06340, USA
SO Bioorganic & Medicinal Chemistry Letters (2004), 14(22), 5521-5525
CODEN: BMCLE8; ISSN: 0960-894X
PB Elsevier B.V.
DT Journal
LA English
OS CASREACT 142:231
AB High-throughput screening with cyclin-dependent kinase 5 (cdk5)/p25 led to the discovery of N-(5-isopropyl-thiazol-2-yl)isobutyramide. This compound is an equipotent inhibitor of cdk5 and cyclin-dependent kinase 2 (cdk2)/cyclin E (IC₅₀ = ca. 320 nM). Parallel and directed synthesis techniques were utilized to explore the SAR of this series. Up to 60-fold improvements in potency at cdk5 and 12-fold selectivity over cdk2 were achieved.
IT **474460-64-5P 474461-02-4P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(aminothiazole inhibitors of cyclin-dependent kinase)
RN 474460-64-5 CAPLUS
CN Urea, N-(5-cyclobutyl-2-thiazolyl)-N'-6-isoquinolinyl- (9CI) (CA INDEX NAME)



RN 474461-02-4 CAPLUS
CN Urea, N-(5-cyclobutyl-2-thiazolyl)-N'-8-isoquinolinyl- (9CI) (CA INDEX NAME)

NAME)



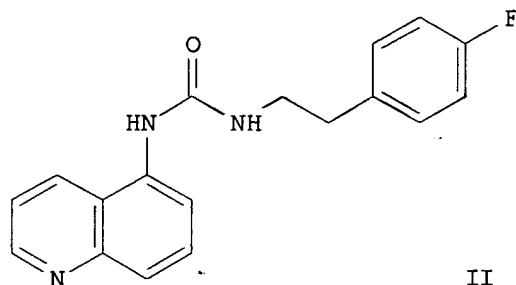
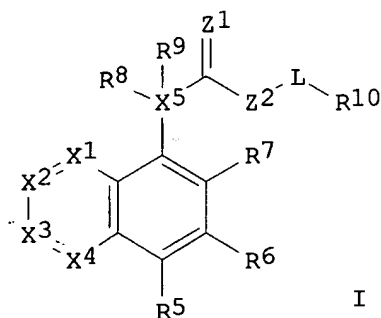
RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:652634 CAPLUS
DN 141:174087
TI Preparation of fused azabicyclic compounds that inhibit vanilloid receptor
 subtype 1 (VR1)
IN Lee, Chih-Hung; Bayburt, Erol K.; Didomenico, Stanley; Drizin, Irene;
 Gomtsyan, Arthur R.; Koenig, John R.; Perner, Richard J.; Schmidt, Robert
 G.; Turner, Sean C.; White, Tammie K.; Zheng, Guo Zhu
PA Abbott Laboratories, USA
SO U.S. Pat. Appl. Publ., 93 pp., Cont.-in-part of U.S. Ser. No. 364,210.
 CODEN: USXXCO
DT Patent
LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004157849	A1	20040812	US 2003-634678	20030805
	US 6933311	B2	20050823		
	US 2003158198	A1	20030821	US 2003-364210	20030211
	WO 2005016890	A1	20050224	WO 2004-US25109	20040804
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SI, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2003-364210	A2	20030211		
	US 2002-358220P	P	20020220		
	US 2003-634678	A	20030805		

OS MARPAT 141:174087
GI



AB Comps. of formula I [X1-X5 = (substituted) N, (substituted) CH; Z1 = O, NH, S; Z2 = bond, NH, O; L = alkylene, cycloalkylene, piperazinediyl, etc.; R5-R9 = H, alkyl, alkenyl, alkoxy, carboxy, cycloalkyl, formyl, mercapto, etc.; R10 = H, aryl, cycloalkyl, heterocyclyl] are prepared as vanilloid receptor subtype 1 (VR1) antagonists that are useful in treating pain, inflammatory thermal hyperalgesia, urinary incontinence and bladder overactivity. Thus, II was prepared from 5-aminoisoquinoline and 2-(3-fluorophenyl)ethylamine. The prepared compds. were found to be antagonists of VR1 with IC50 of 0.1 nM to 1000 nM.

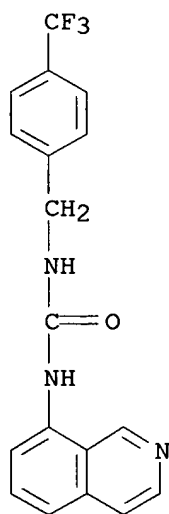
IT **581810-21-1P 581810-22-2P**

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

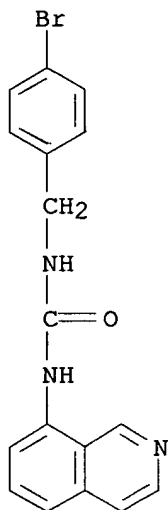
(preparation of fused azabicyclic compds. as vanilloid receptor 1 inhibitors)

RN 581810-21-1 CAPLUS

CN Urea, N-8-isoquinolinyl-N'-[[4-(trifluoromethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)



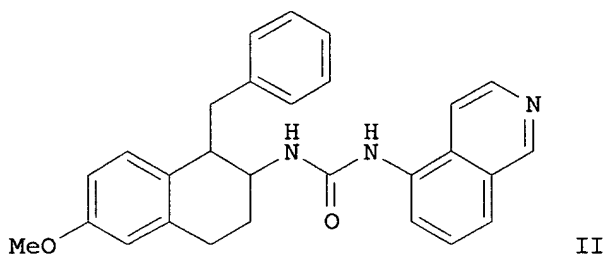
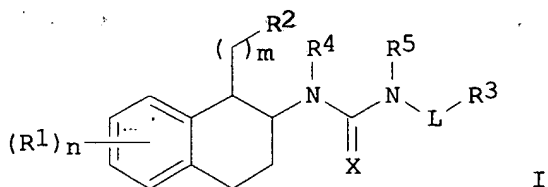
RN 581810-22-2 CAPLUS
 CN Urea, N-[(4-bromophenyl)methyl]-N'-8-isoquinolinyl- (9CI) (CA INDEX NAME)



L5 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:931319 CAPLUS
 DN 140:4865
 TI Aminotetralin-derived urea modulators of vanilloid VR1 receptor useful for treatment of pain, inflammation, etc.
 IN Codd, Ellen; Dax, Scott L.; Jetter, Michele; Mcdonell, Mark; McNally, James J.; Youngman, Mark
 PA Janssen Pharmaceutica N.V., Belg.
 SO PCT Int. Appl., 206 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003097586	A1	20031127	WO 2003-US15254	20030515
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2486092	AA	20031127	CA 2003-2486092	20030515
	US 2003236280	A1	20031225	US 2003-438477	20030515
	US 6984647	B2	20060110		
	EP 1506166	A1	20050216	EP 2003-731189	20030515
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
	JP 2005526137	T2	20050902	JP 2004-505319	20030515

	US 2005187291	A1	20050825	US 2005-45956	20050128
PRAI	US 2002-381575P	P	20020517		
	US 2003-438477	A3	20030515		
	WO 2003-US15254	W	20030515		
OS	MARPAT 140:4865				
GI					



AB The invention is directed to vanilloid receptor VR1 ligands I [R1 = H, OH, halo, (un)substituted alkyl, alkoxy, fluoroalkyl, fluoroalkoxy, alkylthio, cycloalkyl, cycloalkoxy, or Ph, NO2, (di)(alkyl)amino, cycloalkylamino, cyano, CO2H, alkoxycarbonyl, aroyl, carbamoyl, amidino, etc.; n = 1-3; m = 0-3; R2 = H, OH, alkyl, alkenyl, alkylidenyl, alkylidynyl, F, Cl, cycloalkyl, (un)substituted Ph, naphthyl, OPh, or heteroaryl; L = bond, alkanediyl, alkenediyl, alkynediyl, cycloalkanediyl; R3 = (un)substituted Ph, naphthyl, or heteroaryl; R4, R5 = H, alkyl; X = O, S; including enantiomers, diastereomers, tautomers, solvates, and/or pharmaceutically acceptable salts]. More particularly, the invention relates to β -aminotetralin-derived ureas that are potent antagonists or agonists of VR1, and which are useful for the treatment and prevention of inflammatory and other pain conditions in mammals. Approx. 120 compds. were prepared, and these plus addnl. compds. are claimed individually. Claims also relate to pharmaceutical compns., methods of treatment, and kits for treatment of a long list of diseases and conditions. For example, condensation of isoquinolin-5-ylcarbamic acid Ph ester with 1-benzyl-6-methoxy-1,2,3,4-tetrahydronaphthalen-2-ylamine HCl in DMSO in the presence of DIPEA at room temperature gave invention compound II. This compound

inhibited binding of [3H]-RTX to recombinant human VR1 receptors in vitro with a K_i value of 3.37 nM. In functional expts., II blocked the activation of human recombinant VR1 elicited by agonists including low pH, PMA-induced PKC phosphorylation, anandamide, H2O2, and DTT; the potency was comparable to capsazepine. Compds. I also inhibited capsaicin-induced currents in dissociated rat DRG neurons. II potently antagonized capsaicin-induced contraction of isolated guinea pig bronchial rings, with an estimated pA_{2} of 8.0 ± 0.02 .

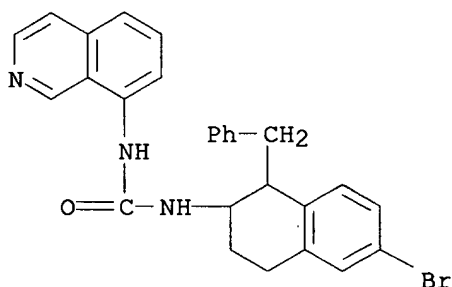
IT 628721-15-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of aminotetralin-derived ureas as vanilloid VR1 receptor modulators)

RN 628721-15-3 CAPLUS

CN Urea, N-[6-bromo-1,2,3,4-tetrahydro-1-(phenylmethyl)-2-naphthalenyl]-N'-8-isoquinoliny- (9CI) (CA INDEX NAME)



RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:77762 CAPLUS

DN 139:292162

TI Heteroaromatic ureas as vanilloid receptor (VR1) modulators, in particular antagonists, for treating pain and/or inflammation

IN Brown, Rebecca Elizabeth; Doughty, Victoria Alexandra; Hollingworth, Gregory John; Jones, A. Brian; Lindon, Matthew John; Moyes, Christopher Richard; Rogers, Lauren

PA Merck Sharp & Dohme Limited, UK

SO PCT Int. Appl., 110 pp.

CODEN: PIXXD2

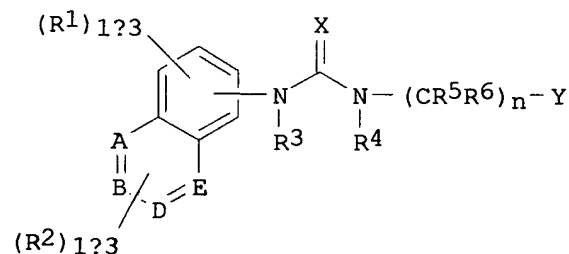
DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003080578	A1	20031002	WO 2003-GB1302	20030321
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2479150	AA	20031002	CA 2003-2479150	20030321
EP 1490340	A1	20041229	EP 2003-710014	20030321
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005107388	A1	20050519	US 2003-505358	20030321

	JP 2005526798	T2	20050908	JP 2003-578333	20030321
PRAI	GB 2002-6876	A	20020322		
	WO 2003-GB1302	W	20030321		
OS	MARPAT 139:292162				
GI					



AB Title compds. I [wherein A, B, D, E are each C or N with the proviso that one or more are N; R1, R2 = independently H, halo, alk(enyl/ynyl), haloalkyl, hydroxyalkyl, cycloalkyl, cycloalkylalkyl, NH2 and derivs., CO2H and derivs., (un)substituted alkyl, alkoxy; R3, R4 = independently H, alk(en/yn)yl; R5, R6 = at each occurrence, independently H, alk(enyl/ynyl), alkoxy, acyloxy, carboxy and derivs., CONH2 and derivs., sulfonyl(alkyl/amino), aryl, hetero(aryl/cyclyl), (un)substituted alkyl; or CR5R6 = 3-6 carbocyclic membered ring; R7, R8 = at each occurrence, independently H, alk(en/yn)yl, cycloalkyl, fluoroalkyl; or NR7R8 = (un)substituted 4-7 heteroaliph. membered ring; X = O, S or =NCN; Y = aryl, heteroaryl, carbocyclyl, fused carbocyclyl group; n = 0, 1, 2, 3; and their pharmaceutically acceptable salts, N-oxides, and prodrugs] were prepared as vanilloid receptor (VR1) modulators, in particular antagonists, for treating conditions or diseases in which pain and/or inflammation predominates. For example, 1-isoquinolin-5-yl-3-(3-phenylpropyl)urea was prepared by reacting isoquinoline-5-carboxylic acid with diphenylphosphoryl azide in toluene at reflux for 1 h through a Curtius rearrangement, followed by addition of 3-phenylpropylamine and reflux for 18 h. I bound to the VR1 receptor with an IC50 < 1 μM, and in the majority of cases, < 200 nM. I are predominantly VR1 antagonists with a few of them VR1 partial antagonists and VR1 partial agonists. Thus, I and their pharmaceutical compns. are useful for treating pain and/or inflammation.

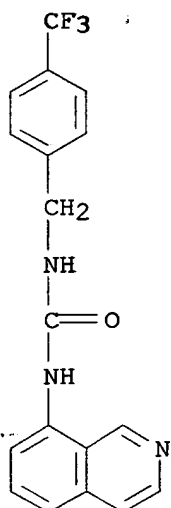
IT **581810-21-1P**, 1-Isoquinolin-8-yl-3-[4-(trifluoromethyl)benzyl]urea
608516-01-4P, 1-(4-tert-Butylbenzyl)-3-isoquinolin-8-ylurea
608516-10-5P, 1-Isoquinolin-8-yl-3-[3-[4-(trifluoromethyl)phenyl]propyl]urea **608516-12-7P**, 1-Isoquinolin-8-yl-3-[3-[3-(trifluoromethyl)phenyl]propyl]urea
608516-14-9P, 1-Isoquinolin-8-yl-3-[4-(trifluoromethoxy)benzyl]urea **608516-43-4P**, 1-(3-Methoxyisoquinolin-8-yl)-3-[4-(trifluoromethyl)benzyl]urea
608516-49-0P, 1-Isoquinolin-6-yl-3-[4-(trifluoromethyl)benzyl]urea
608516-50-3P, 1-Isoquinolin-6-yl-3-[4-(trifluoromethoxy)benzyl]urea **608516-53-6P**, 1-(3-Methylisoquinolin-8-yl)-3-[4-(trifluoromethyl)benzyl]urea
608517-03-9P, 1-Isoquinolin-7-yl-3-[4-(trifluoromethyl)benzyl]urea
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(Uses)

(VR1 receptor ligand; preparation of heteroarom. ureas as vanilloid receptor modulators for treating pain and inflammation)

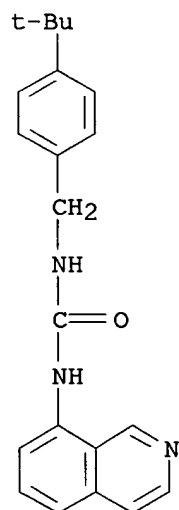
RN 581810-21-1 CAPLUS

CN Urea, N-8-isoquinolinyl-N'-[[4-(trifluoromethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)



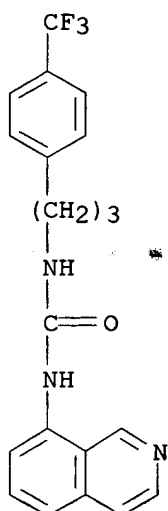
RN 608516-01-4 CAPLUS

CN Urea, N-[[4-(1,1-dimethylethyl)phenyl]methyl]-N'-8-isoquinolinyl- (9CI) (CA INDEX NAME)



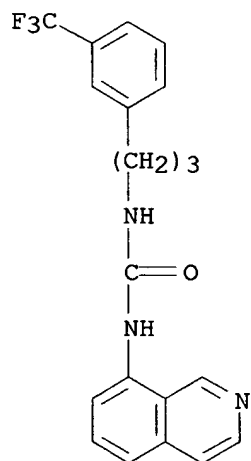
RN 608516-10-5 CAPLUS

CN Urea, N-8-isoquinolinyl-N'-[3-[4-(trifluoromethyl)phenyl]propyl]- (9CI) (CA INDEX NAME)



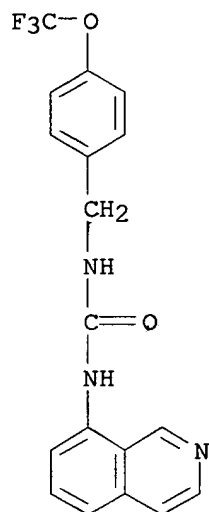
RN 608516-12-7 CAPLUS

CN Urea, N-8-isoquinolinyl-N'-[3-[3-(trifluoromethyl)phenyl]propyl]- (9CI)
(CA INDEX NAME)



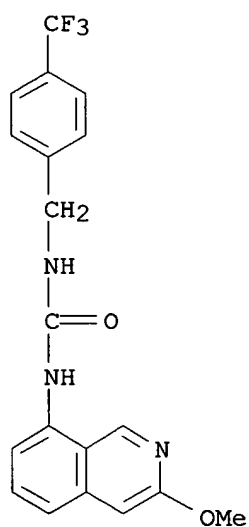
RN 608516-14-9 CAPLUS

CN Urea, N-8-isoquinolinyl-N'-[[4-(trifluoromethoxy)phenyl]methyl]- (9CI)
(CA INDEX NAME)



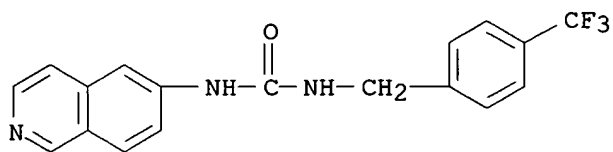
RN 608516-43-4 CAPLUS

CN Urea, N-(3-methoxy-8-isoquinolinyl)-N'-[[4-(trifluoromethyl)phenyl]methyl]-
(9CI) (CA INDEX NAME)

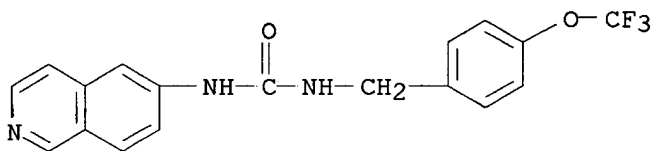


RN 608516-49-0 CAPLUS

CN Urea, N-6-isoquinolinyl-N'-[[4-(trifluoromethyl)phenyl]methyl]- (9CI) (CA
INDEX NAME)

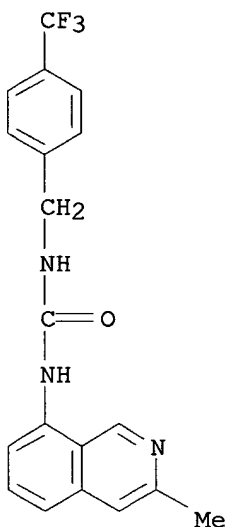


RN 608516-50-3 CAPLUS

CN Urea, N-6-isoquinolinyl-N'-[[4-(trifluoromethoxy)phenyl]methyl]- (9CI)
(CA INDEX NAME)

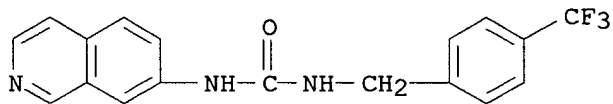
RN 608516-53-6 CAPLUS

CN Urea, N-(3-methyl-8-isoquinolinyl)-N'-[[4-(trifluoromethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)



RN 608517-03-9 CAPLUS

CN Urea, N-7-isoquinolinyl-N'-[[4-(trifluoromethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:656417 CAPLUS

DN 139:197383

TI Preparation of fused azabicyclic compounds that inhibit vanilloid receptor subtype 1 (VR1)

IN Lee, Chih-Hung; Bayburt, Erol K.; Didomenico, Stanley; Drizin, Irene;

Gomtsyan, Arthur R.; Koenig, John R.; Perner, Richard J.; Schmidt, Robert G.; Turner, Sean C.; White, Tammie K.; Zheng, Guo Zhu

PA USA

SO U.S. Pat. Appl. Publ., 79 pp.

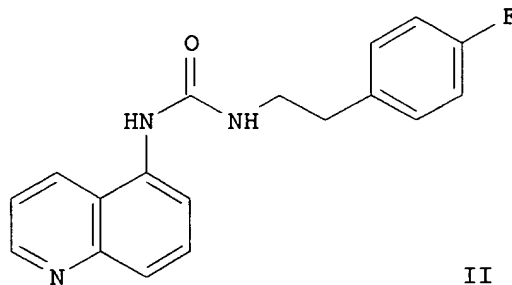
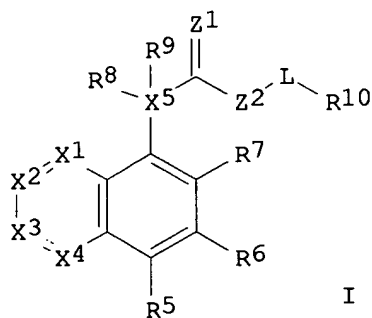
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003158198	A1	20030821	US 2003-364210	20030211
	CA 2476936	AA	20030828	CA 2003-2476936	20030211
	WO 2003070247	A1	20030828	WO 2003-US4187	20030211
	W: CA, JP, MX				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR				
	EP 1478363	A1	20041124	EP 2003-716014	20030211
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	US 2004157849	A1	20040812	US 2003-634678	20030805
	US 6933311	B2	20050823		
	US 2004209884	A1	20041021	US 2004-842311	20040510
PRAI	US 2002-358220P	P	20020220		
	US 2002-79324	A	20020220		
	US 2003-364210	A	20030211		
	WO 2003-US4187	W	20030211		
OS	MARPAT 139:197383				
GI					



AB Compds. of formula I [X1-X5 = (substituted) N, (substituted) CH; Z1 = O, NH, S; Z2 = bond, NH, O; L = alkylene, cycloalkylene, piperazinediyl, etc.; R5-R9 = H, alkyl, alkenyl, alkoxy, carboxy, cycloalkyl, formyl, mercapto, etc.; R10 = H, aryl, cycloalkyl, heterocyclyl] are prepared as vanilloid receptor subtype 1 (VR1) antagonists that are useful in treating pain, inflammatory thermal hyperalgesia, urinary incontinence and bladder overactivity. Thus, II was prepared from 5-aminoisoquinoline and 2-(3-fluorophenyl)ethylamine. The prepared compds. were found to be antagonists of VR1 with IC50 of .1 nM to 1000 nM.

IT **581810-21-1P 581810-22-2P**

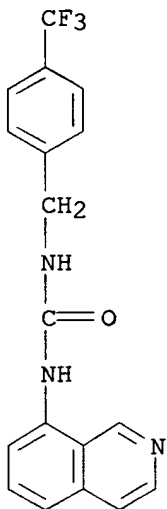
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of fused azabicyclic compds. as vanilloid receptor 1

inhibitors)

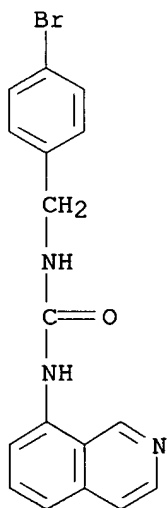
RN 581810-21-1 CAPLUS

CN Urea, N-8-isoquinolinyl-N'-[[4-(trifluoromethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)



RN 581810-22-2 CAPLUS

CN Urea, N-[(4-bromophenyl)methyl]-N'-8-isoquinolinyl- (9CI) (CA INDEX NAME)



L5 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:656416 CAPLUS

DN 139:197382

TI Preparation of isoquinolines, indoles, and related compounds as antagonists of vanilloid receptor subtype 1 (VR1).

IN Lee, Chih-Hung; Bayburt, Erol K.; Didomenico, Stanley; Drizin, Irene; Gomtsoyan, Arthur R.; Koenig, John R.; Perner, Richard J.; Schmidt, Robert

G.; Turner, Sean C.; White, Tammie K.; Zheng, Guo Zhu

PA USA

SO U.S. Pat. Appl. Publ., 38 pp.

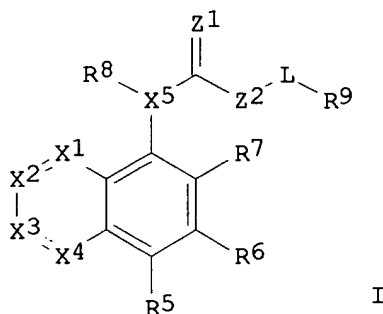
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003158188	A1	20030821	US 2002-79324	20020220
	CA 2476936	AA	20030828	CA 2003-2476936	20030211
	WO 2003070247	A1	20030828	WO 2003-US4187	20030211
	W: CA, JP, MX				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR				
	EP 1478363	A1	20041124	EP 2003-716014	20030211
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
PRAI	US 2002-79324	A	20020220		
	US 2003-364210	A	20030211		
	WO 2003-US4187	W	20030211		
OS	MARPAT 139:197382				
GI					



AB Title compds. [I; X1 = N, CR1; X2 = N, CR2; X3 = N, NR3, CR3; X4 = null, N, CR4; X5 = N, CH2; Z1 = O, NH, S; Z2 = NH, O; L = piperazinylene, alkenylene, alkylene, alkynylene, cycloalkylene, (CH2)mO(CH2)n, NHO, NHNH; m, n = 1-6; R1, R3, R5, R6, R7 = H, alkenyl, alkoxy, alkoxyalkoxy, alkoxyalkyl, alkoxyacetyl, alkoxyacetylalkyl, A, ACO, ACOA, ACO2, AS, alkynyl, CO2H, ACO2H, cyano, cyanoalkyl, cycloalkyl, cycloalkylalkyl, ethylenedioxy, CHO, ACHO, haloalkoxy, haloalkyl, haloalkylthio, halo, OH, HOA, methylenedioxy, SH, ASH, NO2, (CF3)2(HO)C, NRASO2RB, SO2ORA, SO2RB, NZAZB, (NZAZB)A, (NZAZB)CO, (NZAZB)COA, (NZAZB)SO2; ZA, ZB = H, A, ACO, CHO, aryl, aralkyl; R2, R4 = H, alkenyl, AO, alkoxyalkoxy, AOA, AO2C, AO2CA, A, ACO, ACOA, ACO2, AS, alkynyl, CO2H, carboxyalkyl, cyano, cyanoalkyl, cycloalkyl, cycloalkylalkyl, ethylenedioxy, CHO, ACHO, haloalkoxy, haloalkyl, haloalkylthio, halo, OH, HOA, methylenedioxy, SH, HSA, NO2, (CF3)2(HO)C, NRAS(O)2RB, SO2ORA, SO2RB, NZAZB, (NZAZB)alkyl, (NZAZB)ACO, (NZAZB)CO, (NZAZB)COA, (NZAZB)SO2, (NZAZB)C(:NH), (NZAZB)C(:NCN)NH, (NZAZB)C(:NH)NH; RA = H, A; RB = A, aryl, aralkyl; R8 = null, H, A; R9 = H, aryl, heterocycle; A = alkyl; dotted line = optional

double bond], were prepared for treating pain, inflammatory thermal hyperalgesia, urinary incontinence and bladder overactivity (no data). Thus, 2,2,2-trichloro-N-isoquinolin-5-ylacetamide, (preparation given) DBU, and 2-(3-fluorophenyl)ethylamine in acetonitrile were refluxed for 10 h to give 65% N-[2-(3-fluorophenyl)ethyl]-N'-isoquinolin-5-ylurea.

IT **581810-21-1P 581810-22-2P**

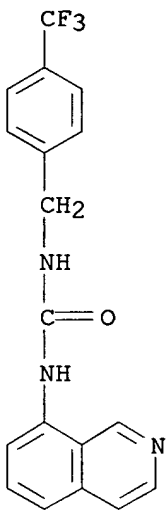
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(claimed compound; preparation of isoquinolines, indoles, and related compds.

as antagonists of vanilloid receptor subtype 1)

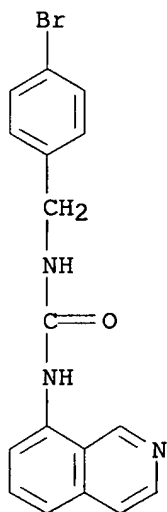
RN 581810-21-1 CAPLUS

CN Urea, N-8-isoquinolinyl-N'-[[4-(trifluoromethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)

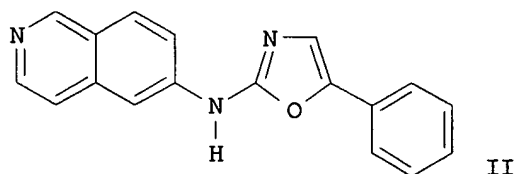


RN 581810-22-2 CAPLUS

CN Urea, N-[(4-bromophenyl)methyl]-N'-8-isoquinolinyl- (9CI) (CA INDEX NAME)



L5 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:236040 CAPLUS
 DN 139:133492
 TI Identification of novel and potent isoquinoline aminooxazole-based IMPDH inhibitors
 AU Chen, Ping; Norris, Derek; Haslow, Kristin D.; Murali Dhar, T. G.; Pitts, William J.; Watterson, Scott H.; Cheney, Daniel L.; Bassolino, Donna A.; Fleener, Catherine A.; Rouleau, Katherine A.; Hollenbaugh, Diane L.; Townsend, Robert M.; Barrish, Joel C.; Iwanowicz, Edwin J.
 CS Discovery Chemistry, Bristol-Myers Squibb Pharmaceutical Research Institute, Princeton, NJ, 08543, USA
 SO Bioorganic & Medicinal Chemistry Letters (2003), 13(7), 1345-1348
 CODEN: BMCLE8; ISSN: 0960-894X
 PB Elsevier Science B.V.
 DT Journal
 LA English
 OS CASREACT 139:133492
 GI



AB Screening of our inhouse compound collection led to the discovery of 5-bromo-6-aminoisoquinoline (I) as a weak inhibitor of IMPDH. Subsequent optimization of I afforded a series of novel 2-isoquinolinoaminooxazole-based inhibitors, e.g., II, with single-digit nanomolar potency against the enzyme.

IT 566944-08-9P 566944-09-0P 566944-10-3P
 566944-11-4P 566944-12-5P 566944-13-6P

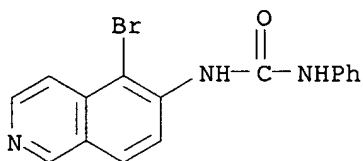
566944-14-7P 566944-15-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation, IMPDH inhibition, and structure-activity relationships of isoquinolinylureas via addition of aminoisoquinolines to aryl isocyanates)

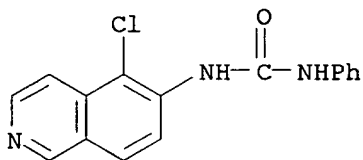
RN 566944-08-9 CAPLUS

CN Urea, N-(5-bromo-6-isoquinolinyl)-N'-phenyl- (9CI) (CA INDEX NAME)



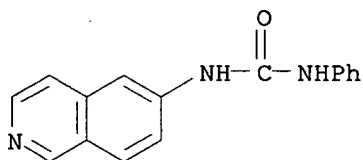
RN 566944-09-0 CAPLUS

CN Urea, N-(5-chloro-6-isoquinolinyl)-N'-phenyl- (9CI) (CA INDEX NAME)



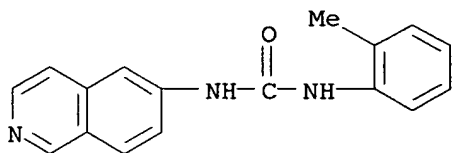
RN 566944-10-3 CAPLUS

CN Urea, N-6-isoquinolinyl-N'-phenyl- (9CI) (CA INDEX NAME)



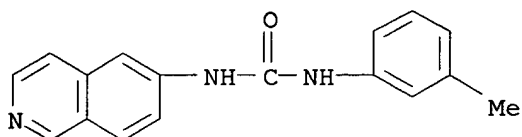
RN 566944-11-4 CAPLUS

CN Urea, N-6-isoquinolinyl-N'-(2-methylphenyl)- (9CI) (CA INDEX NAME)



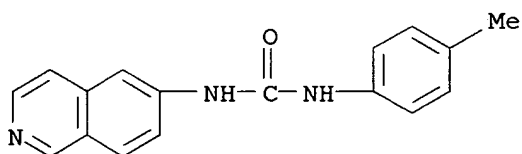
RN 566944-12-5 CAPLUS

CN Urea, N-6-isoquinolinyl-N'-(3-methylphenyl)- (9CI) (CA INDEX NAME)



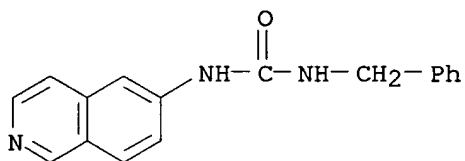
RN 566944-13-6 CAPLUS

CN Urea, N-6-isoquinolinyl-N'-(4-methylphenyl)- (9CI) (CA INDEX NAME)



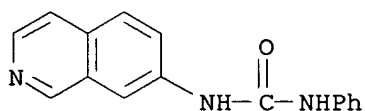
RN 566944-14-7 CAPLUS

CN Urea, N-6-isoquinolinyl-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 566944-15-8 CAPLUS

CN Urea, N-7-isoquinolinyl-N'-phenyl- (9CI) (CA INDEX NAME)



RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:866687 CAPLUS

DN 137:353013

TI Thiazole derivatives and their use as cdk inhibitors, including combinations and pharmaceutical compositions

IN Cooper, Christopher Blair; Helal, Christopher John; Sanner, Mark Allen

PA Pfizer Products Inc., USA

SO Eur. Pat. Appl., 32 pp.

CODEN: EPXXDW

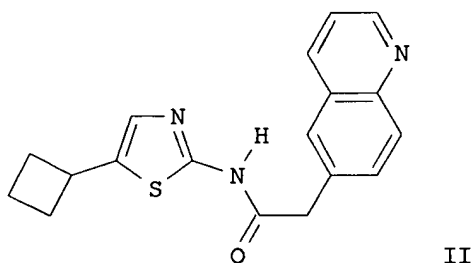
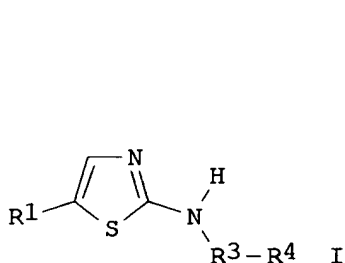
DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	EP 1256578	A1	20021113	EP 2002-253106	20020502
	EP 1256578	B1	20060111		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2002338556	A2	20021127	JP 2002-132275	20020508
	CA 2385692	AA	20021111	CA 2002-2385692	20020509
	BR 2002001691	A	20030311	BR 2002-1691	20020513
	US 2003078252	A1	20030424	US 2002-144403	20020513
	US 6720427	B2	20040413		
	US 2004192746	A1	20040930	US 2004-818876	20040405
PRAI	US 2001-290466P	P	20010511		
	US 2002-144403	A1	20020513		
OS	MARPAT 137:353013				
GI					



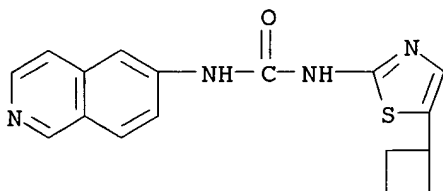
AB The invention provides compds. thiazole derivs. I [wherein: R1 = (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, heterocycloalkyl, bicycloalkyl, bicycloalkenyl, heterobicycloalkyl, aryl, heteroaryl, or amino including cyclic amino; R3 = (un)substituted CONH, COO, CO(CH2)n, (CH2)n; R4 = as given for R1 except amino; n = 0-3; including pharmaceutically acceptable salts]. I are inhibitors of cyclin-dependent protein kinases (cdk), particularly cdk5, cdk2, and GSK-3. Pharmaceutical compns. and methods comprising compds. I are described, particularly for treating diseases and conditions comprising abnormal cell growth, such as cancer, and neurodegenerative diseases and conditions and those affected by dopamine neurotransmission. Also described are pharmaceutical compns. and methods comprising compds. I for treating or improving the following: male fertility and sperm motility problems, diabetes mellitus, impaired glucose tolerance, metabolic syndrome or syndrome X, polycystic ovary syndrome, adipogenesis and obesity, myogenesis and frailty (for example age-related decline in phys. performance), acute sarcopenia (for example, muscle atrophy and/or cachexia associated with burns, bed rest, limb immobilization, or major thoracic, abdominal, and/or orthopedic surgery), sepsis, hair loss, hair thinning, balding, and immunodeficiency. Approx. 90 specific compds. I are claimed, and the preps. of 5 of these and several intermediates are exemplified. For instance, 2-aminothiazole was lithiated and silylated, then re-lithiated and treated with cyclobutanone to give 1-(2-aminothiazol-5-yl)cyclobutanol. This alc. was hydrogenated to give 5-cyclobutylthiazol-2-ylamine, which was coupled with 6-quinolylacetic acid using T3P (1-propanephosphonic acid cyclic trimeric anhydride), to give title compound II. The 5 exemplified compds. all had IC50 values of < 50 μ M for inhibiting cdk5, cdk2, and GSK-3 β in vitro.

IT **474460-64-5P**, 1-(5-Cyclobutylthiazol-2-yl)-3-isoquinolin-6-ylurea
474461-02-4P, 1-(5-Cyclobutylthiazol-2-yl)-3-isoquinolin-8-ylurea

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
(drug candidate; preparation of thiazole derivs. as cdk inhibitors)

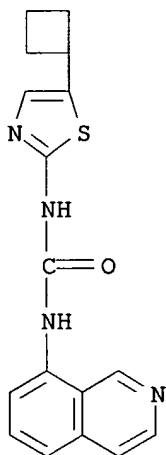
RN 474460-64-5 CAPLUS

CN Urea, N-(5-cyclobutyl-2-thiazolyl)-N'-6-isoquinolinyl- (9CI) (CA INDEX
NAME)



RN 474461-02-4 CAPLUS

CN Urea, N-(5-cyclobutyl-2-thiazolyl)-N'-8-isoquinolinyl- (9CI) (CA INDEX
NAME)



RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:107923 CAPLUS

DN 136:151166

TI Preparation of imidazoisquinolinones as inhibitors of tyrosine kinases
IN Snow, Roger John; Cardozo, Mario; Goldberg, Daniel; Hammach, Abdelhakim;
Morwick, Tina; Moss, Neil; Patel, Usha R.; Prokopowicz, Anthony S.;
Takahashi, Hidenori; Tschantz, Matt Aaron; Wang, Xiao-Jun

PA Boehringer Ingelheim Pharmaceuticals, Inc., USA

SO U.S. Pat. Appl. Publ., 62 pp., Cont.-in-part of U.S. Ser. No. 679,156.
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

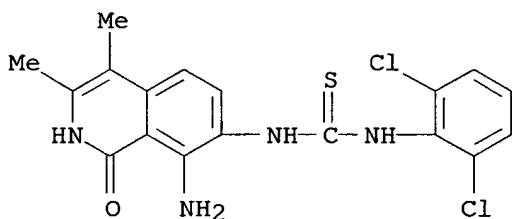
PI	US 2002016460	A1	20020207	US 2001-921509	20010802
	US 6506769	B2	20030114		
	US 2003166929	A1	20030904	US 2002-292026	20021112
	US 6770639	B2	20040803		
PRAI	US 1999-157922P	P	19991006		
	US 2000-679156	A2	20001005		
	US 2001-921509	A3	20010802		
OS	CASREACT 136:151166; MARPAT 136:151166				
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

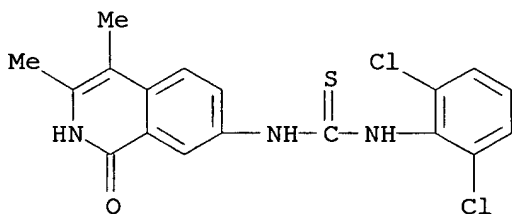
AB The title compds. [I; Ar1 = (un)substituted (non)aromatic carbocyclyl, heteroaryl, heterocyclyl; X = NH, N(alkyl), O, etc.; Y = NR15, S, O; Ra = H, alkyl, alkenyl, etc.; R4 and R5 together with the atoms to which they are attached = II, III (wherein R6 = alkyl, H; R7 = alkyl, H; R8 = H, alkyl, etc.; R9 = H, CN, etc.)], useful as inhibitors of certain protein tyrosine kinases and are thus useful for treating diseases associated with such kinases, for example, diseases resulting from inappropriate cell proliferation, which include autoimmune diseases, chronic inflammatory diseases, allergic diseases, transplant rejection and cancer, as well as conditions resulting from cerebral ischemia, such as stroke, were prepared. All exemplified compds. I were evaluated in the tyrosine kinase assay using a kinase such as p56lck and were found to have IC50's less than 10 μ M. Methods of preparation are claimed and 29 example preps. are included. E.g., a multi-step synthesis of the imidazoisoquinolinedione IV was given. Claimed methods include: a method of making I wherein X is N-R15 and Ar1, R4, R5, R15 and Ra are as defined in claim 1, said process comprising: (a) reacting a phenylenediamine with Ar1NCS in a suitable solvent at about ambient to reflux temperature for .apprx.3 to 24 h to provide a possibly substituted N-(o-aminophenyl)thiourea (b) reacting this product with a suitable activating agent chosen from 1,3-dicyclohexylcarbodiimide (DCC) and mercuric oxide in a suitable solvent at about ambient to reflux temperature. Also, a method of making I wherein X is S, Y is NH and Ar1, R4, R5 and Ra are as defined in claim 1, said process comprising: (a) reacting an aniline with Ar1NCS in a suitable solvent at about ambient to reflux temperature for .apprx.3 to 24 h to form a thiourea; (b) reacting this product under cyclizing conditions in a suitable solvent at about reflux temperature. Also, a method of making V wherein R15, R8 and R9 are as described in claim 1, said method comprising: (a) reacting 2,6-dichloro-3-nitrobenzonitrile with NHR15 in a suitable solvent optionally in a pressure flask and at .apprx.0 to 80°, to provide 2-R15NH-3-nitro-6-chlorobenzonitriles, and subsequently reacting these compds. with ketoester R9C(O)CHR8CO2Et in the presence of a suitable base in a suitable solvent, at about ambient temperature to form 2-NC-3-R15NH-4-O2NC6H2CR8(C(O)R9)CO2Et (b) hydrolyzing this product by reacting with aqueous acid, and cyclizing at about reflux temperature; followed by reducing the cyclized product in a suitable solvent. Also, a method of making VI wherein Ra, R8, R9 and Ar1 are as described in claim 1, said method comprising: (a) reacting a phenylenediamine with Br2 in a suitable solvent at ambient temperature to provide a brominated ring product; (b) reacting this product with Ar1NCS in a suitable solvent at about ambient to reflux temperature for .apprx.3 to 24 h and subsequently reacting the

product with a suitable activating agent chosen from DCC and mercuric oxide in a suitable solvent at about ambient to reflux temperature to form VI with Ra = Br; (c) cross-coupling to introduce Ra in place of Br in the presence of a suitable catalyst in a suitable solvent at .apprx.100°.

IT **333458-37-0P**, Thiourea, N-(8-amino-1,2-dihydro-3,4-dimethyl-1-oxo-7-isoquinolinyl)-N'-(2,6-dichlorophenyl)- **333458-53-0P**, Thiourea, N-(2,6-dichlorophenyl)-N'-(1,2-dihydro-3,4-dimethyl-1-oxo-7-isoquinolinyl)-
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of imidazoisquinolinones as inhibitors of tyrosine kinases)
 RN 333458-37-0 CAPLUS
 CN Thiourea, N-(8-amino-1,2-dihydro-3,4-dimethyl-1-oxo-7-isoquinolinyl)-N'-(2,6-dichlorophenyl)- (9CI) (CA INDEX NAME)



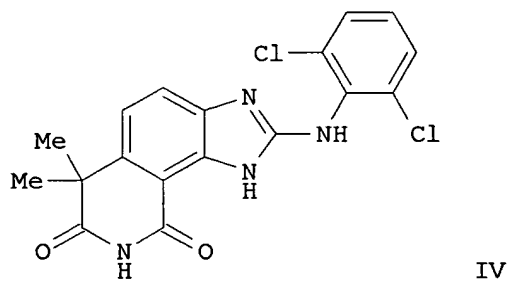
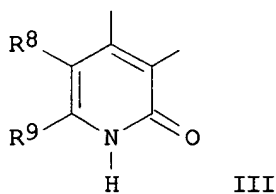
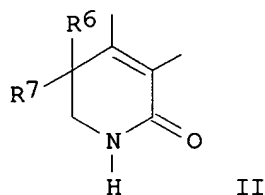
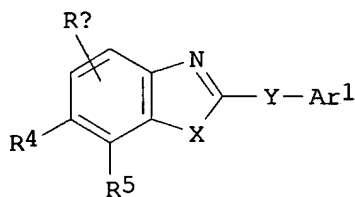
RN 333458-53-0 CAPLUS
 CN Thiourea, N-(2,6-dichlorophenyl)-N'-(1,2-dihydro-3,4-dimethyl-1-oxo-7-isoquinolinyl)- (9CI) (CA INDEX NAME)



L5 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2001:265421 CAPLUS
 DN 134:280844
 TI Preparation of imidazoisquinolinones as inhibitors of tyrosine kinases
 IN Snow, Roger John; Cardozo, Mario Gustavo; Goldberg, Daniel; Hammach, Abdelhakim; Morwick, Tina; Moss, Neil; Patel, Usha R.; Prokopowicz, Anthony S., III; Takahashi, Hidenori; Tschantz, Matt Aaron; Wang, Xiao-jun
 PA Boehringer Ingelheim Pharmaceuticals, Inc., USA
 SO PCT Int. Appl., 169 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2001025238 A2 20010412 WO 2000-US27444 20001005
 WO 2001025238 A3 20011025
 W: CA, JP, MX
 RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
 PT, SE
 CA 2384378 AA 20010412 CA 2000-2384378 20001005
 EP 1222187 A2 20020717 EP 2000-968713 20001005
 EP 1222187 B1 20040922
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI, CY
 JP 2003527328 T2 20030916 JP 2001-528182 20001005
 AT 277044 E 20041015 AT 2000-968713 20001005
 ES 2225231 T3 20050316 ES 2000-968713 20001005
 PRAI US 1999-157922P P 19991006
 WO 2000-US27444 W 20001005
 OS MARPAT 134:280844
 GI



AB The title compds. [I; Ar1 = (un)substituted (non)aromatic carbocyclyl, heteroaryl, heterocyclyl; X = NH, N(alkyl), O, etc.; Y = NR15, S, O; Ra = H, alkyl, alkenyl, etc.; R4 and R5 together with the atoms to which they are attached = II, III (wherein R6 = alkyl, H; R7 = alkyl, H; R8 = H, alkyl, etc.; R9 = H, CN, etc.)], useful as inhibitors of certain protein tyrosine kinases and are thus useful for treating diseases associated with such kinases, for example, diseases resulting from inappropriate cell proliferation, which include autoimmune diseases, chronic inflammatory diseases, allergic diseases, transplant rejection and cancer, were prepared. E.g., a multi-step synthesis of the imidazoisoquinolinedione IV was given. All exemplified compds. I were evaluated in the tyrosine kinase assay using a kinase such as p56lck and were found to have IC50's less than 10

μ M.

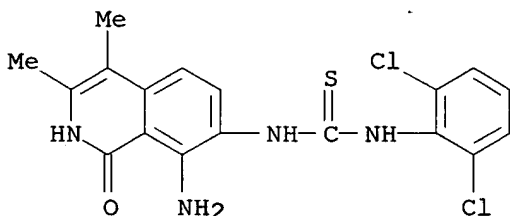
IT 333458-37-0P 333458-53-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of imidazoisquinolinones as inhibitors of tyrosine kinases)

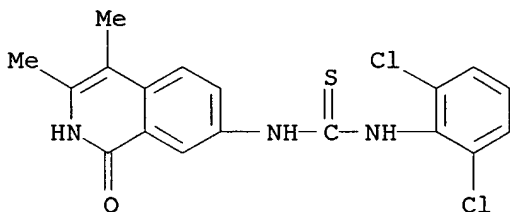
RN 333458-37-0 CAPLUS

CN Thiourea, N-(8-amino-1,2-dihydro-3,4-dimethyl-1-oxo-7-isoquinolinyl)-N'-(2,6-dichlorophenyl)- (9CI) (CA INDEX NAME)



RN 333458-53-0 CAPLUS

CN Thiourea, N-(2,6-dichlorophenyl)-N'-(1,2-dihydro-3,4-dimethyl-1-oxo-7-isoquinolinyl)- (9CI) (CA INDEX NAME)



L5 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1995:550906 CAPLUS

DN 122:314547

TI Preparation of urea residue-substituted heterocyclic compounds with antithrombotic, antineoplastic and blood platelet-aggregation inhibition activities

IN Himmelsbach, Frank; Pieper, Helmut; Austel, Volkhard; Linz, Guenter; Guth, Brian; Mueller, Thomas; Weisenberger, Johannes

PA Dr. Karl Thomae GmbH, Germany

SO Eur. Pat. Appl., 81 pp.

CODEN: EPXXDW

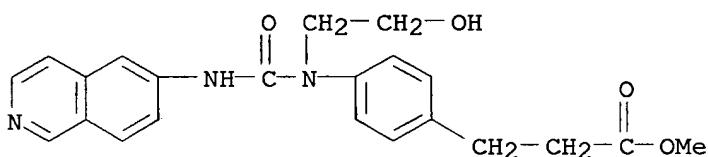
DT Patent

LA German

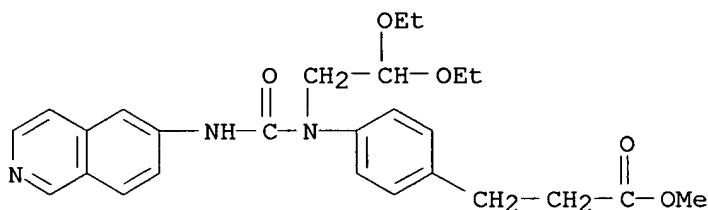
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 612741	A1	19940831	EP 1994-102557	19940221
	EP 612741	B1	19980610		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	DE 4305388	A1	19940825	DE 1993-4305388	19930222
	DE 4332168	A1	19950323	DE 1993-4332168	19930922
	EE 3397	B1	20010416	EE 1994-311	19941123

PRAI DE 1993-4305388 A 19930222
 DE 1993-4332168 A 19930922
 OS MARPAT 122:314547
 AB The title compds., which contain urea-like moieties, often in the form of divalent imidazolidinone groups, which demonstrate a combination of antithrombotic, antineoplastic (no data), and blood platelet-aggregation inhibition activities, are prepared and pharmaceutical dosage forms containing them presented. Thus, 1-[4-(2-carboxyethyl)phenyl]-3-(1,2,3,4-tetrahydroisoquinolin-6-yl)imidazolidin-2-one was prepared and demonstrated ED50 for blood platelet aggregation inhibition of 40 nM.
 IT **158726-22-8P 158726-36-4P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of urea residue-substituted heterocyclic compds. with antithrombotic, antineoplastic and blood platelet-aggregation inhibition activities)
 RN 158726-22-8 CAPLUS
 CN Benzenepropanoic acid, 4-[(2-hydroxyethyl)[(6-isoquinolinylamino)carbonyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



RN 158726-36-4 CAPLUS
 CN Benzenepropanoic acid, 4-[(2,2-diethoxyethyl)[(6-isoquinolinylamino)carbonyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



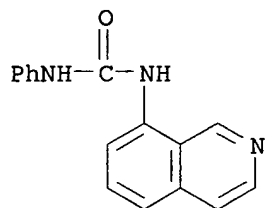
L5 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1995:95816 CAPLUS
 DN 122:132936
 TI Phenylisoquinolinyl derivatives of urea
 AU Nowak, Krystyna; Poradowska, Henryka
 CS Pol.
 SO Czasopismo Techniczne (Krakow) (1992), 89(1), 7-12
 CODEN: CZTEAY; ISSN: 0011-4561
 DT Journal
 LA Polish
 OS CASREACT 122:132936
 AB Adding PhNCO in dry PhMe to 1-, 4-, 5- or 8-aminoisoquinoline solution gave the corresponding isoquinolylphenylureas quant. These products are potential plant-growth stimulants.

IT 119612-65-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of isoquinolylphenylureas by addition reaction of
 aminoisoquinolines with Ph isocyanate)

RN 119612-65-6 CAPLUS

CN Urea, N-8-isoquinolinyl-N'-phenyl- (9CI) (CA INDEX NAME)



L5 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1994:680641 CAPLUS

DN 121:280641

TI Preparation of N-arylazolones as tissue aggregation inhibitors

IN Himmelsbach, Frank; Pieper, Helmut; Austel, Volkhard; Linz, Guenter; Guth,
 Brian; Mueller, Thomas; Weisenberger, Johannes

PA Dr. Karl Thomae GmbH, Germany

SO Ger. Offen., 46 pp.

CODEN: GWXXBX

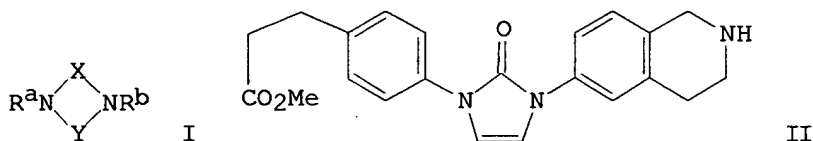
DT Patent

LA German

FAN.CNT 3

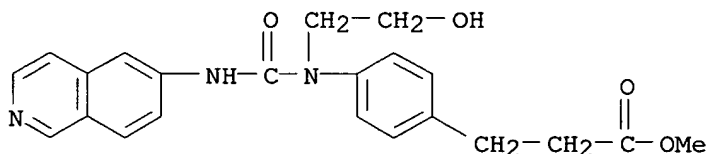
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PI	DE 4305388	A1	19940825	DE 1993-4305388	19930222
	DE 4332168	A1	19950323	DE 1993-4332168	19930922
	TW 384286	B	20000311	TW 1994-83101259	19940217
	CA 2116068	AA	19940823	CA 1994-2116068	19940221
	FI 9400806	A	19940823	FI 1994-806	19940221
	NO 9400595	A	19940823	NO 1994-595	19940221
	AU 9456324	A1	19940825	AU 1994-56324	19940221
	AU 673875	B2	19961128		
	EP 612741	A1	19940831	EP 1994-102557	19940221
	EP 612741	B1	19980610		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	JP 06256343	A2	19940913	JP 1994-22727	19940221
	JP 3545446	B2	20040721		
	ZA 9401159	A	19950821	ZA 1994-1159	19940221
	HU 70768	A2	19951030	HU 1994-493	19940221
	AT 167185	E	19980615	AT 1994-102557	19940221
	ES 2118992	T3	19981001	ES 1994-102557	19940221
	RU 2126002	C1	19990210	RU 1994-6007	19940221
	PL 178215	B1	20000331	PL 1994-302302	19940221
	CN 1099755	A	19950308	CN 1994-102252	19940222
	CN 1048490	B	20000119		
	US 5519036	A	19960521	US 1994-200125	19940222
	IL 108733	A1	19980104	IL 1994-108733	19940222
	US 5612335	A	19970318	US 1995-434136	19950502
	US 5827849	A	19981027	US 1996-768365	19961217
PRAI	DE 1993-4305388	A	19930222		

DE 1993-4332168	A	19930922
US 1994-200125	A3	19940222
US 1995-434136	A3	19950502
DE 1996-19624069	A	19960617
OS MARPAT 121:280641		
GI		

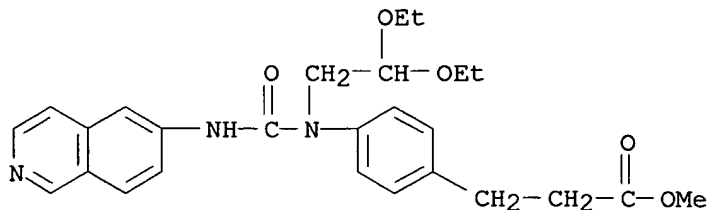


AB Title compds. [I; Ra,Rb = AB; A = benzene ring-attached benzannellated N-containing heterocyclyl; B = bond, alk(en)ylene, arylene, etc.; X = (N-substituted) C(:NH), CO, SO1-2, etc.; Y = alk(en)ylene, 1,2-cycloalk(en)ylene, 1,2-phenylene, etc.] were prepared. Thus, 4-(MeO2CH2CH2C)C6H4NHCH2CH2OH and 6-aminoisoquinoline were condensed with N,N'-carbonyldiimidazole to give 4-(MeO2CH2CH2C)C6H4NH(CH2CH2OH)CONHR (R = 6-isoquinolinyl). 4-(MeO2CH2CH2C)C6H4NH[CH2CH2(OEt)2]CONHR (R = unchanged) was cyclized and the product hydrogenated in HOAc to give phenylisoquinolinylimidazolone II. HOAc which had IC50 of 40nM against collagen-induced platelet aggregation in vitro.

IT **158726-22-8P 158726-36-4P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of N-arylazolones as tissue aggregation inhibitors)
 RN 158726-22-8 CAPLUS
 CN Benzenepropanoic acid, 4-[(2-hydroxyethyl)[(6-isoquinolinylamino)carbonyl]amino]-, methyl ester (9CI) (CA INDEX NAME)

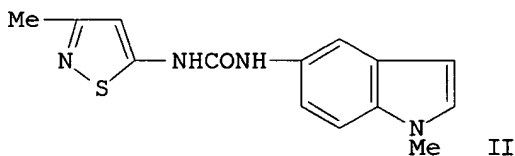
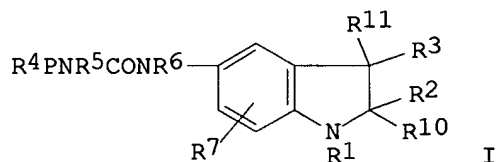


RN 158726-36-4 CAPLUS
 CN Benzenepropanoic acid, 4-[(2,2-diethoxyethyl)[(6-isoquinolinylamino)carbonyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1994:77171 CAPLUS
 DN 120:77171
 TI Preparation of indolylurea derivatives as antagonists
 IN Forbes, Ian Thomson; Martin, Roger Thomas; Jones, Graham Elgin
 PA SmithKline Beecham PLC, UK
 SO PCT Int. Appl., 36 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9318028	A1	19930916	WO 1993-GB449	19930304
	W: AU, CA, JP, KR, NZ, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9336411	A1	19931005	AU 1993-36411	19930304
	EP 630373	A1	19941228	EP 1993-905507	19930304
	R: BE, CH, DE, FR, GB, IT, LI, NL				
	JP 07504429	T2	19950518	JP 1993-515449	19930304
	ZA 9301713	A	19940922	ZA 1993-1713	19930310
	US 5508288	A	19960416	US 1994-295694	19940830
PRAI	GB 1992-5415	A	19920312		
	GB 1992-5416	A	19920312		
	GB 1992-5422	A	19920312		
	GB 1992-5442	A	19920312		
	WO 1993-GB449	A	19930304		
OS	MARPAT 120:77171				
GI					



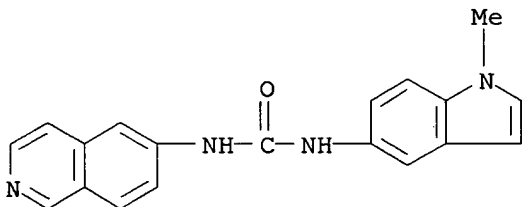
AB Title compds. I (P = quinolinyl, isoquinolyl, 5,6-membered heterocyclyl; R1 = H, C1-6 alkyl; R2, R3, R10, R11 = C2-6 alkylene; R4 = H, C1-6 alkyl, halo, R8R9N, R12O, R12OC wherein R8, R9, R12 = H, C1-6 alkyl; R5, R6 = H, C1-6 alkyl; R7 = H, C1-6 alkyl, C1-6 alkoxy, halo; etc.) or a salt thereof, are prepared to NaH was added 5-amino-3-methylbisthiazole-HCl followed by N-(1-methyl-5-indolyl)carbamate (preparation given) to give the title compound II. The affinity of II for 5-HT1C binding site by assessing its ability to displace [3H]-mesulergine from 5-HT1C binding sites was shown by pA2 as 7.9.

IT 152239-58-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as 5-HT1c antagonists)

RN 152239-58-2 CAPLUS

CN Urea, N-6-isoquinolinyl-N'-(1-methyl-1H-indol-5-yl)- (9CI) (CA INDEX NAME)



L5 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1989:135062 CAPLUS

DN 110:135062

TI Phenyl and isoquinolinyl derivatives of urea and thiourea

AU Nowak, K.; Poradowska, H.

CS Inst. Org. Chem. Technol., Polytech. Univ., Krakow, Pol.

SO Studies in Organic Chemistry (Amsterdam) (1988), 35 (Chem. Heterocycl. Compd.), 438-40

CODEN: SOCHDQ; ISSN: 0165-3253

DT Journal

LA English

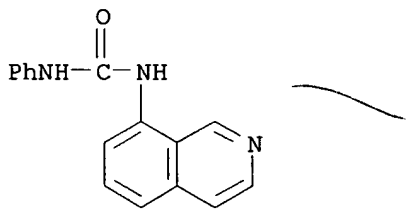
AB A lecture on the preparation and properties of Ph isoquinolinyl ureas and thioureas.

IT **119612-65-6P 119612-68-9P**

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and mass spectra of)

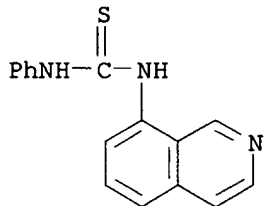
RN 119612-65-6 CAPLUS

CN Urea, N-8-isoquinolinyl-N'-phenyl- (9CI) (CA INDEX NAME)



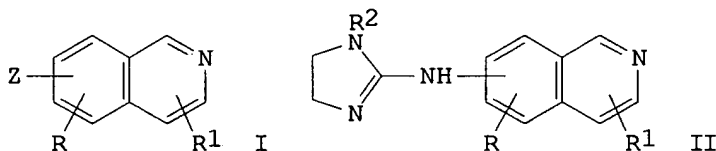
RN 119612-68-9 CAPLUS

CN Thiourea, N-8-isoquinolinyl-N'-phenyl- (9CI) (CA INDEX NAME)



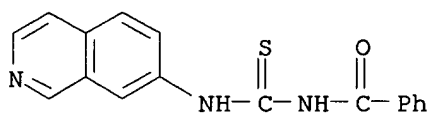
L5 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1980:426292 CAPLUS
 DN 93:26292
 TI Isoquinoline derivatives
 PA Rhone-Poulenc Industries S. A., Fr.
 SO Belg., 33 pp.
 CODEN: BEXXAL
 DT Patent
 LA French
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	BE 875797	A1	19791023	BE 1979-194791	19790423
	FR 2424270	A1	19791123	FR 1978-12026	19780424
	FR 2424270	B1	19800919		
	FR 2449087	A2	19800912	FR 1979-4004	19790216
	NL 7902993	A	19791026	NL 1979-2993	19790417
	AU 7946219	A1	19791101	AU 1979-46219	19790420
	GB 2020280	A	19791114	GB 1979-13821	19790420
	GB 2020280	B2	19820728		
	JP 55007260	A2	19800119	JP 1979-48895	19790420
	ZA 7901893	A	19800430	ZA 1979-1893	19790420
	DK 7901669	A	19791025	DK 1979-1669	19790423
	SE 7903554	A	19791025	SE 1979-3554	19790423
	ES 479878	A1	19800816	ES 1979-479878	19790424
	ES 482070	A1	19800401	ES 1979-482070	19790629
PRAI	FR 1978-12026	A	19780424		
	FR 1979-4004	A	19790216		
GI					



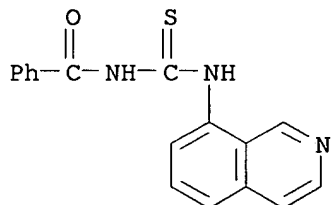
AB The cyclocondensation reaction of aminoisoquinolines I [Z (in the 4-, 5-, 6-, 7-, or 8-position) = S-alkylisothioureido, NHCS2H alkyl ester, isothiocyanato; R and R1 (same or different) are H, halo, alkyl, alkoxy, alkoxyalkyl, alkylthio, dialkylamino] with H2NCH2CH2NHR2 (R2 = H, hydroxyalkyl) gave the resp. (imidazolinylamino)isoquinolines II, useful as antihypertensives (no data). 4-(Thioureido)isoquinoline was S-methylated, and the isothiourea derivative obtained was heated 7 h with H2NCH2CH2NH2 in EtOH to give 4-[(4,5-dihydro-2-imidazolyl)amino]isoquinoline.

IT **72677-84-0P 72677-85-1P 72677-86-2P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and deacylation of)
 RN 72677-84-0 CAPLUS
 CN Benzamide, N-[(7-isoquinolinylamino)thioxomethyl]- (9CI) (CA INDEX NAME)



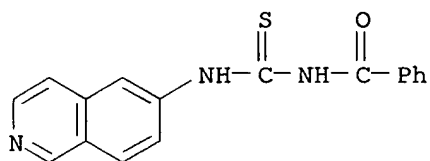
RN 72677-85-1 CAPLUS

CN Benzamide, N-[(8-isoquinolinylamino)thioxomethyl]- (9CI) (CA INDEX NAME)



RN 72677-86-2 CAPLUS

CN Benzamide, N-[(6-isoquinolinylamino)thioxomethyl]- (9CI) (CA INDEX NAME)



L5 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1980:111013 CAPLUS

DN 92:111013

TI Isoquinoline derivatives

IN Deprez, Dominique; Farge, Daniel; Hucherot, Jean Jaques; Moutonnier, Claude

PA Rhone-Poulenc Industries S. A., Fr.

SO Ger. Offen., 40 pp.

CODEN: GWXXBX

DT Patent

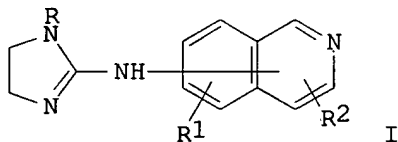
LA German

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2916577	A1	19791031	DE 1979-2916577	19790424
	FR 2424270	A1	19791123	FR 1978-12026	19780424
	FR 2424270	B1	19800919		
	FR 2449087	A2	19800912	FR 1979-4004	19790216
	NL 7902993	A	19791026	NL 1979-2993	19790417
	AU 7946219	A1	19791101	AU 1979-46219	19790420
	GB 2020280	A	19791114	GB 1979-13821	19790420
	GB 2020280	B2	19820728		
	JP 55007260	A2	19800119	JP 1979-48895	19790420
	ZA 7901893	A	19800430	ZA 1979-1893	19790420
	DK 7901669	A	19791025	DK 1979-1669	19790423
	SE 7903554	A	19791025	SE 1979-3554	19790423

ES 479878	A1	19800816	ES 1979-479878	19790424
ES 482070	A1	19800401	ES 1979-482070	19790629
PRAI FR 1978-12026	A	19780424		
FR 1979-4004	A	19790216		

GI



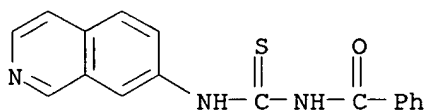
AB The antihypertensive (no data) compds. I R = H, hydroxyalkyl; R1 and R2 = H, halogen, alkyl, alkoxy, alkoxyalkyl, alkylthio, dialkylamino) and their salts were prepared. Thus, 5-(2-methylisothioureido)isoquinoline-HI reacted with H₂NCH₂CH₂NH₂ in EtOH to give 4-[(4,5-dihydro-2-imidazolyl)amino]isoquinoline.

IT **72677-84-0P 72677-85-1P 72677-86-2P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)

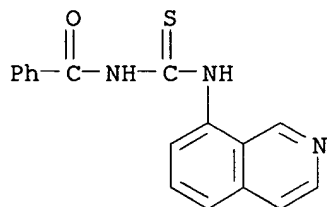
RN 72677-84-0 CAPLUS

CN Benzamide, N-[(7-isoquinolinylamino)thioxomethyl]- (9CI) (CA INDEX NAME)



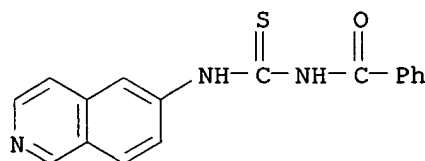
RN 72677-85-1 CAPLUS

CN Benzamide, N-[(8-isoquinolinylamino)thioxomethyl]- (9CI) (CA INDEX NAME)



RN 72677-86-2 CAPLUS

CN Benzamide, N-[(6-isoquinolinylamino)thioxomethyl]- (9CI) (CA INDEX NAME)



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=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

108.23

275.38

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-15.75

-15.75

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